US ERA ARCHIVE DOCUMENT

		Shaughness	y No.: 1	21601	<u> </u>
		Date Out o	f EFGWB:_	APR 24	1989
To:	Robert Taylor Product Manager #25 Fungicide-Herbicide Branch Registration Division (H7505C)				
From:	Emil Regelman, Supervisory Chemist & Chemistry Review Section #2 Environmental Fate & Ground Water Fra	nch (1175070		/.	
Thru:	Henry Jacoby, Acting Chief Environmental Fate & Ground Water Bra Environmental Fate & Effects Division	y factor (47507C)			
Attach	hed, please find the EFGWB review of				
Reg./F	File # : 113				
Common	n Name: Acetochlor				
Type P	Product : Herbicide				
Produc	ct Name : Harness®				·
Compan	ny Name : ICI America Inc.				
Purpos	se : Review waiver requests re lab	oratory vol	latility	(§163-2),	field
	volatility (§163-3), and fish	accumulati	Lon (§165	-4).	
Date R	Received: 11/23/88 Ac	tion Code(	s): <u>35</u>	0	
Date C	Completed: 4/21/89 EF	'GWB #(s):	901	70	<u> </u>
	Total Reviewing Time:(decimal	days): 2.2	2 days	-	
Deferr	rals to: Ecological Effects Bra	inch, EFED			
	Science Integration &	Policy Sta	ff, EFED		
	Non-Dietary Exposure I	Branch, HED			
	Dietary Exposure Branc	h, HED			
	Toxicology Branch, F-F	I Support/H	ED		

7 mila

#### Common name(s): 1. CHEMICAL:

Acetochlor

### Chemical name:

2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)-acetamide

### Trade name(s):

Harness®

### Structure:

### Formulations:

86.4% a.i., herbicide.

## Physical/Chemical properties:

Molecular weight: 269

liquid Form:

> 200°C B. P .:

> 0°C M. P.:

Vapor Pressure: < 1 mm Hg

Nondetectable at pH 5-9 Hydrolysis Rate:

In water, 223 ppm; very soluble Solubility:

in ether, acetone, benzene, alcohol,

chloroform, and ethylacetate.

Stable (first detectable heat Stability:

evolution at 170°C)

#### 2. TEST MATERIAL:

N/A.

#### STUDY/ACTION TYPE: 3.

Review waiver requests by ICI America Inc. re laboratory volatility (§163-2) field volatility (§163-3), and fish accumulation (§165-4).

#### 4. STUDY IDENTIFICATION:

N/A.

### 5. REVIEWED BY:

Padma Datta, Ph.D. Chemist Chemistry Review Section #2 EFGWB/EFED/OPP Signature: PROatta

Date: 4/24/87

### 6. APPROVED BY:

Emil Regelman Supervisory Chemist Chemistry Review Section #2 EFGWB/EFED/OPP Signature: a. Reiter for Emil Regelmen

Date: 4/24/89

### 7. CONCLUSIONS:

EFGWB concurs with the requests for waiver of the laboratory volatility study ( $\S163-2$ ) and the field volatility study ( $\S163-3$ ) because: (1) the vapor pressure of acetochlor (4.4 x  $10^{-5}$  mm Hg at 25°C) approximates the Agency's cut-off point (1 x  $10^{-6}$  mm Hg at 25°C) for requiring these studies; (2) acetochlor is classified as category III by the Agency thus neither an inhalation toxicity study nor re-entry exposure monitoring data are required.

EFGWB cannot concur with the request for waiver of a fish accumulation study (\$165-4) because: (1) the  $K_{\text{OW}}$  of acetochlor (ca 970) is not significantly lower than  $K_{\text{OW}}=1000$ , the Agency's cut-off point for not requiring this study; (2) ICI America Inc. has not offered evidence that acetochlor will not reach bodies of water in or near corn fields and persist in water.

### 8. RECOMMENDATIONS:

EFGWB recommends RD inform ICI America Inc. that waiver requests for the laboratory volatility study ( $\S163-2$ ) and the field volatility study ( $\S163-3$ ) are granted by the Agency.

ICI must submit to the Agency a fish accumulation study (§165-4) to support continued registration of acetochlor.

### 9. BACKGROUND:

On 11/11/88 ICI America Inc. requested the Agency waive the following data requirements for the use of acetochlor on corn:

§163-2 - Laboratory volatility

§163-3 - Field volatility

\$165-4 - Fish accumulation

ICI America Inc. included rationales to justify these waiver requests for the above studies.

- 10. <u>DISCUSSION OF INDIVIDUAL TESTS OR STUDIES:</u> N/A.
- 11. COMPLETION OF ONE-LINER:
  See attached one-liner.
- 12. CBI APPENDIX:
  N/A.

ATTACHMENT 1

# OFFICE OF PESTICIDE PROCRAMS DATA REVIEW RECORD

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